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Polarity and Conformation of Phospha-λ5-azenes in Solutions

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Abstract

Conformations of a series of phosphazenes Ph3C=N-C6H4-X-o in solutions, determined by method of dipole moments and IR spectroscopy, are considered. The derivatives possessing alkyl substituents exist in bisector conformations with the rotation angle of aromatic fragment relative to N-Csp2-30° < φ < 30°. The alkoxy substituted derivatives have the rotation angle φ 90°.